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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/626,955	07/25/2003	Patrick Heyne	P2002,0624	3783	
24131 7	590 03/11/2005		EXAM	EXAMINER	
LERNER AND GREENBERG, PA			LAM, I	LAM, DAVID	
P O BOX 2480 HOLLYWOOD, FL 33022-2480			ART UNIT	PAPER NUMBER	
			2827		
			DATE MAILED: 03/11/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	10/626,955	HEYNE, PATRICK				
Office Action Summary	Examiner	Art Unit				
	David Lam	2827				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
2a) ☐ This action is FINAL. 2b) ☑ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-10 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
7)⊠ Claim(s) <u>3-6 and 8-10</u> is/are objected to.	6)⊠ Claim(s) <u>1,2 and 7</u> is/are rejected. 7)⊠ Claim(s) 3-6 and 8-10 is/are objected to					
• • • • • • • • • • • • • • • • • • • •	/ <u>-</u>					
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	raminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) X Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Praftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)				
- apor 110(9)/11/an Date	عرب					

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 1-2 are rejected under 35 U.S.C. 102(e) as being anticipated by Jeong (6,628,566).

Regarding to claims 1-2, Jeong discloses an integrated synchronous memory operable at different operating frequency comprising mode register (3, 4) for storing a frequency-range information item regarding whether the integrated synchronous memory operates in a first frequency range (FH) or in a second frequency range (FL) in an application, the second frequency range being lower than the first frequency range, a sub-circuit (5) connected to the register and having a mode of operation controlled on a basis of the frequency-range information item stored in the register. See Figs. 1-3, Cols. 3-7.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claim 7 rejected under 35 U.S.C. 103(a) as being unpatentable over Pax (6,731,548) in view of Jeong (6,628,566).

Regarding to claim 7, Pax discloses a reduce power registered memory module comprising system controller (68) connected to the memory modules (44, 46) and to setting the register (100) of the memory modules. See Fig. 3; Cols. 3-4.

Jeong discloses an integrated synchronous memory operable at different operating frequency comprising mode register (3, 4) for storing a frequency-range information item regarding whether the integrated synchronous memory operates in a first frequency range (FH) or in a second frequency range (FL) in an application, the second frequency range being lower than the first frequency range, a sub-circuit (5) connected to the register and having a mode of operation controlled on a basis of the frequency-range information item stored in the register. *See Figs. 1-3, Cols. 3-7.*

It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Pax's memory module by incorporate Jeong's synchronous memory to provide a high-speed and low power consumption semiconductor memory device.

Allowable Subject Matter

3. Claims 3-6, 8-10 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fails to teach the invention as noted above and wherein the sub-circuit

contains a DLL circuit having a variable delay, and among others as claimed in claim3.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to David Lam whose telephone number is 571-272-1782. The

examiner can normally be reached on 6:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hoai Ho can be reached on 571-272-1777. The fax phone numbers for the

organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. Lam

March 7, 2005